



UNITED STATES DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

-- EDMAP --

The Educational Component of the National Cooperative Geologic Mapping Program

Authorized by The National Geologic Mapping Reauthorization Act of 1997 (Public Law 105-36)

OBJECTIVES

- O Provide funding for graduate students, and selected undergraduate students, in academic research programs, through cooperative agreements that involve geologic mapping and scientific data analysis as major components.
- O Expand the research and educational capacity of academic programs that teach earth science students the techniques of geologic mapping and field data analysis.
- O Facilitate the publication and distribution of geologic maps generated in field-based academic research programs.

PROGRAM ANNOUNCEMENT No. 00HQPA0003

For Fiscal Year 2000

ISSUE DATE: SEPTEMBER 20, 1999

CLOSING DATE & TIME
DECEMBER 2, 1999 at 4:15 p.m.

In Reply Refer to: Mail Stop 205A

SUBJECT: Fiscal Year 2000 - EDMAP

Announcement Number 00HQPA0003

The Educational Component of the National

Cooperative Geologic Mapping Program (EDMAP)

Dear Applicant:

The U.S. Geological Survey (USGS) invites you to submit an application to achieve the objectives set forth in the attached announcement in support of the National Cooperative Geologic Mapping Program. Each applicant is required to share in the cost of the mapping projects as described in "Part V. EDMAP-Programming Specifications" at section "A. Funding" of the announcement which states in part that:

"The EDMAP program is designed to be carried out on a 1:1 match. Recipients shall match each Federal dollar with a non-Federal dollar."

Your application must be prepared, formatted, and submitted in accordance with the instructions contained in the announcement. Please read the announcement carefully. There are some changes from prior years.

For your convenience, the Application for Federal Assistance form (SF-424), Certification form, Assurances form, and other forms may be accessed at the website as follows,

http://www.rdc.noaa.gov/~grants/forms/forms.html.

If you have any questions, please telephone me at (703) 648-7483 or e-mail me at ccaudle@usgs.gov.

Sincerely,

Clementine Caudle-Wright Contracting Officer

Enclosures

TABLE OF CONTENTS

	<u>Page</u>
Table of Contents	i
Part I. Requirements and Instructions for Application Submission	1-2
Part II. Research Priorities, Products Applicable to the Program,	3-9
Format for Proposal Text, and Budget/Cost Data	
Part III. Evaluation Criteria	9-10
Part IV. General Provisions	10-12
Part V. Program Specifications	12-15
<u>ATTACHMENTS</u>	

- A. Standard Form (SF) 424 Federal Assistance
- B. SF-424B Assurances Nonconstruction Programs
- C. Certifications for Federal Assistance
- D. SF-270 Request for Advance or Reimbursement; and,
- E SF-3881 Payment Info Form ACH Vendor Payment System
- F. SF-269A Financial Status Report
- G. EDMAP Proposal Summary Sheet
- H. Budget Sheets (total and individual project)
- I. State Geologic Survey listing and NCGMP Projects

NOTE: The words "application" and "proposal" are used interchangeably in this document.

PART I. REQUIREMENTS AND INSTRUCTIONS FOR APPLICATION SUBMISSION

A. <u>Application Issue Date</u>: September 20, 1999

Application Closing Date: December 2, 1999

B. Eligibility - Who May Submit an Application

Masters and Doctoral students of Geoscience or related Departments at accredited United States colleges and universities are eligible applicants to the Educational (EDMAP) component of the National Cooperative Geologic Mapping Program. In addition, qualified undergraduate Juniors and Seniors are also eligible. These undergraduates should have received some basic mineralogy, petrology and structural geology training prior to the time they will do the geologic mapping proposed in this application.

C. Application Format and Submission Instructions

- 1. The instructions below are designated to insure the submission of all necessary information and to assist the applicant in preparing his proposal. These instructions should establish uniformity in proposal preparation and submission. As a result, the proposals will be complete with all essential information and will be evaluated equitably.
- (a) All applicants shall insure that the following administrative documents (i through vi) be assembled in the order prescribed below:
 - (i) FIRST DOCUMENT: The completed and signed Application for Federal Assistance form, the Standard Form 424; and then, (Please, do not place any other document on top of the application form, NOT EVEN A COVER LETTER which is NOT required.)
 - (ii) The Proposal Text, which shall include Budget Sheets (Attachment H-1/H-2) and shall meet the criteria as listed on page five at Part II.C.3 for each project or sub-project. The total proposal text (project or any subproject) shall not exceed *FIVE one-sided pages of single-spaced text with font size of 10 point or larger type. The margins should be set at one inch.

- (iii) *The "EDMAP PROPOSAL INFORMATION SUMMARY SHEET" (Attachment G) shall then be added, followed by the ,
- (iv) *SF-424B Assurances Non-Construction Programs; the,
- (v) *Certification for Federal Assistance; and,
- (vi) *Negotiated Rate Agreements; and, finally, the
- (vii) *Support letter(s) from the State geological survey or USGS project chief or program manager [addressed to Peter Lyttle]

*NOTE: Only when submitted as indicated above, the forms (iii through vii above) will be excluded from the page count.

D. <u>Application Delivery Instructions</u>

Applicants are responsible to assure their applications are received in the Office of Acquisition and Federal Assistance (OAFA) by the date and time set for submission of applications. An application received after the closing date and time may not be considered for award. If it is determined that a late application will not be considered due to its lateness, the applicant will be so notified. All packages entering the USGS facility are subject to inspection and/or x-ray.

 Please submit ONE unbound original application and TEN unbound copies to the following address:

U.S. Geological Survey
Office of Acquisition and Federal Assistance
Attn: Clementine Caudle-Wright, MS-205A
Room 6A331
12201 Sunrise Valley Drive
Reston, Virginia 20192

2. Applications delivered by hand.

An application that is hand delivered shall be taken to the USGS, Office of Acquisition and Federal Assistance, Room 6A331, 12201 Sunrise Valley Drive, Reston, Virginia. The Office of Acquisition and Federal Assistance will accept hand delivered applications between 7:45 a.m. and 4:15 p.m. daily, except Saturdays, Sundays, and Federal holidays.

PART II. RESEARCH PRIORITIES, PRODUCTS APPLICABLE TO THE PROGRAM, FORMAT FOR PROPOSAL TEXT, AND BUDGET/COST DATA

A. Research Priorities and Duration of Proposed Projects

The objectives of the EDMAP component of the National Cooperative Geologic Mapping (NCGM) Program are:

- 1) Provide funding for graduate students, and qualified undergraduate Juniors and Seniors, in academic research programs, through cooperative agreements, that involve geologic mapping and scientific data analysis as major components;
- 2) Expand research and educational capacity of graduate and undergraduate academic programs that teach earth science students the techniques of geologic mapping and field data analysis; and,
- 3) Facilitate the publication and distribution of geologic maps generated in field-based graduate academic research programs. The impact of the field study on the scientific, social, or economic betterment of the United States will be a component of the program, and as such will be evaluated as part of the review and funding process. Funding is primarily to support Masters and Doctoral students conducting geologic field mapping, but qualified undergraduate Juniors and Seniors will also be considered. The support is for salary and operating expenses directly related to field work. Emphasis of EDMAP is on the acquisition of new geologic map information presented as geologic maps with attendant explanatory information including correlation of map units, description of map units and symbols, stratigraphic columns, geologic sections, and other pertinent information. These geologic maps will be presented at 1:24,000 or larger scale, will be in the format of State or USGS Open-file reports, and will be archived by the U.S. Geological Survey as part of the National Geologic Map Data Base.

Mapping priorities are those determined by the NCGMP and the State Geologic Mapping Advisory Committees. Mapping priorities are areas identified by States or the USGS for which geologic mapping at 1:24,000 or larger scales is deemed essential. All proposals must be coordinated with a State Geological Survey or with a project in the USGS National Cooperative Geologic Mapping Program or other USGS projects that have a significant geologic mapping component. As part of this coordination and planning process, the method of eventual publication should be discussed with personnel at either the USGS or the geological survey of the State in which the mapping will be conducted. However, receiving EDMAP funds does NOT constitute a guarantee that the map will be published by a state geological survey or the USGS. A written justification for the priority of the mapping project from a State Geologist, USGS Project Chief, or NCGMP Coordinator must also be included in the application packet for a cooperative agreement.

Proposals cannot include a request for in-kind services performed by the USGS. For example, if paleontologic or isotopic age determinations are needed and are to be performed by the USGS, the costs should be budgeted for on a reimbursable basis from other sources of funds available to the University. Paleontologic or isotopic studies conducted as separate projects by the

USGS may, however, coincide with proposed EDMAP projects. Age determinations made under any component of the National Cooperative Geologic Mapping Program will become part of the National Paleontologic or National Geochronologic Data Bases.

Only <u>one</u> cooperative agreement will be awarded to each institution, but the agreement may consist of more than one project, more than one faculty supervisor and several students. The budget should reflect both the total request and the various subunits (different projects and personnel). Each student may request a maximum of \$15,000.00 for salary, field expenses, supervising faculty expenses, and university overhead (direct and indirect costs).

When the EDMAP panel technical recommendation is adopted by the USGS Program Coordinator and an offer made for a modified funding award, an applicant can elect to submit a revised work plan and budget limited to the recommended area. As an alternative, an applicant may decline to participate in the program under the proposed revised terms. Approval for funding of part of a proposal does not constitute adoption by the NCGMP of the original proposal in its full scope nor does it convey acceptance of the entire proposed project and funding request for subsequent years.

For purposes of the EDMAP geologic mapping component, the requested duration of a project can be one or two years although the proposed period of performance must be for no more than 12 months. Award of all cooperative agreements is made for only the current program year, but acceptance of a multi-year proposal for one year does not guarantee funding to the proposed end of the project, nor does it ensure funding at proposed levels during the succeeding year.

If a university or college has been awarded a cooperative agreement for several students, and one or more of those students is unable for any reason to do their geologic mapping project, those funds awarded to the student(s) must be forfeited, and can not be reallocated to the remaining students doing mapping at that institution.

Requests for no-cost extensions shall be forwarded to the Administrative Contracting Officer for consideration not later than 30 days prior to the requested effective date; and, shall be forwarded so as to be received in the Office of Acquisition and Federal Assistance at least 30 days prior to the expiration of the agreement. Requests for extensions (including late deliverables) will be handled on a case-by-case basis by the Contracting Officer.

B. Description of Maps

The geologic maps will consist of new data acquired during the award period and should be at a scale of 1:24,000 or larger. Emphasis for making awards is on the development of new geologic maps. Prompt release of the new geologic maps to the public, in the format of State or USGS Open-File reports, is a primary objective of the program. Interim items (end of 1st field season) can be draft "field sheet" quality clearly demonstrating the work in progress done by the student during the field season.

Geologic maps shall be submitted in paper format. A geologic map is defined as a map that

depicts the geographic distribution at the earth's surface of bedrock and/or surficial geologic materials and structures, on a published base map showing topography, hydrography, culture, cadastral, and other base information. The geologic map includes an explanation, description of map units and symbols, geologic (structure) sections, a stratigraphic column, and other information such as index, reliability, authorship, and tectonic maps, and structure or isopachous contours on mapped geologic units. Examples of items or maps that are not considered geologic maps include: Structure contour maps, isopachous maps, stratigraphic and/or facies diagrams, aquifer maps, gravity or magnetic anomaly maps, and element-distribution geochemical maps. Digitization of topographic maps not done concurrent with preparation of digital geologic maps of the same area is not considered applicable to the program.

NOTE: Emphasis of the program is on the prompt release of the geologic map information acquired under a program award. In order to document completion of mapping at the conclusion of an award year, a successful project must submit to the USGS Program Officer at the completion of the award year the following products: a blackline ozalid or xerox print of the compiled geologic mapping completed at the end of the award year, together with an explanation and correlation of map units, stratigraphic column, and geologic sections. For a proposed two-year project, the geologic map with explanatory information submitted for the award year may, if appropriate, be part of a quadrangle or part of a larger area under study. The quality of the final product submitted should be adequate to be released as an open-file by the USGS or State geological survey, though those organizations are NOT committed to publishing the final maps. The possibility of eventual publication is greatly enhanced if the student and faculty advisor discuss the possibility of publication with the appropriate Geological Survey before field work begins. The USGS and all State Geological Surveys have their own publication standards that must be followed. Interim products (end of 1st field season) can be draft "field sheet" quality.

C. Proposal Text Format

The following format is required for submittal of applications:

- 1. EDMAP Proposal Data and Summary Sheet
- 2. Introduction [one page]

Background, overall problem(s), and project objectives, the Introduction <u>must</u> include brief description of the State Geological Survey or USGS project with which the research is coordinated. Please list Federal or State personnel by name that were contacted as coordinators with the University.

- 3. Proposed investigation shall include the following:
 - a. Location. The proposal must include an index map, with scale and

latitude and longitude, showing area of proposed study (with mapping scale), a brief discussion of existing published and unpublished maps of the proposed study area, and, where appropriate, adjacent areas that have already been studied. Reproducible black and white patterns (not color) must be employed to show different categories of information on index map(s).]

- b. <u>General geologic setting.</u> [An illustration showing the general geology and the outline of the proposed study area, including the scale and latitude and longitude of the illustration should support the summary of the geologic setting.]
- c. <u>Purpose and justification, emphasizing scientific merit.</u> Other benefits (resource, hazard, and other applications) specific to the proposed area may also be included. [one to three paragraphs].

Documentation must address scientific merit and discuss potential applications of this geologic mapping project, scientific or otherwise, and a statement of the appropriateness of the proposed study to the program. The justification and pure or applied scientific application should be written by the principal investigator and must be specific to the area proposed.

Extensibility of scientific work beyond the area of this project and any associated applied spinoff will both be factors considered by the review panel.

- d. <u>Timetable and strategy for completing the investigation</u>. Provide a realistic timetable and approach for the project completion.
- e. <u>Supervisory and training strategy</u> -- How will the map be field checked? Will the faculty supervisor take part in the mapping? Will the final map be field checked by the State Geological Survey or a USGS staff geologic mapper?
- f. <u>Support investigations</u> (geochronology, geotechnical studies, geophysics, geochemistry, or others) needed and proposed means of procuring support for these investigations together with the individuals or organizations that will provide the data.
- 4. Deliverables

Map title(s) and scale

5. Project personnel

Proposed personnel (must include name of student and supervising professor). Two-page maximum for both student and faculty supervisor. This information should address the ability of the supervising faculty member and the student to successfully complete the proposed geologic mapping project. For the student this should include prior geologic mapping experience (field camp or other mapping projects) and any course work that would help significantly in geologic mapping. Faculty members should include teaching experience of geologic mapping or related courses, prior geologic mapping publications and other geologic mapping experience.

NOTE: Please clearly state the name, phone number, and email address of the principal investigator (faculty advisor).

6. Budget

Budget for funds award requested from the USGS

Specific budget information, described below, must be provided to the Contracting Officer using the standard for all applicants. The format of the Proposed Project Budget form must be followed for proposed projects. Summary cost data to justify the proposed Federal funding requested in block 15 of the SF-424 must be provided to the Contracting Officer on the budget sheets (Attachment G).

- a. Personnel. The Principal Investigator's name and a list of other names, positions, and cost for all persons on the project.
- Fringe Benefits. Propose your rates/amounts. If rates are audit approved, include a copy of the audit agreement and/or the name of the audit agency.
- c. Field Expenses. Briefly itemize the estimated travel costs (i.e., number of people, number of travel days, per diem rate, mileage rate, airfare, transportation, and any other travel costs). Note: Travel to professional meetings is not an acceptable expense.

d. Miscellaneous

Equipment. The Geologic Mapping Education Program element is intended to support geologic mapping for the development of new geologic map information. Federal EDMAP funds are not intended for the purchase of capital equipment. Matching cost-sharing funds may be used for this purpose, provided they are directly related and essential to the project.

Supplies. Briefly itemize any supplies. These include base maps, aerial photographs, petrographic thin sections, photographic film, field equipment, and office and laboratory supplies. Itemize each request.

Map Digitizing Costs.

Contractual. List any contractual services and the associated costs. Identify proposed contractors (individual or corporate) and provide the criteria by which contractors will be, or have been selected.

Other. Itemize all other costs not identified elsewhere.

- e. Total Direct Charges. Total for items a d.
- f. Indirect Charges. Show proposed rate and amount.

The appropriated funding for EDMAP is modest and the expected participation may exceed available funds. In order to maximize participation in this program and to maximize funding to students, the EDMAP Review Panel encourages participants to hold indirect costs to a minimum. Proposals must include a copy of the Indirect Negotiated Cost Rate between the institution and the Federal Government.

- g. Total. Total for items e and f. Not to exceed \$15,000.00 for one year, for each student. (Please note: in FY 1999 awards for undergraduates ranged from \$2,500 to \$5,200; awards for graduate students ranged from \$5,000 to \$12,000.)
- 7. If the student has pending requests for support from other institutions, these requests should be listed.
- 8. If the student has received an EDMAP award in a previous year, the results of that work should be briefly summarized.

9. Standard Forms

- a. All forms listed on page one at C.1.(a) shall accompany your application package and be in the order prescribed therein. These forms are included as enclosures to this program announcement.
- b. Standard Form 424, Item 5, second block in right column, must first, clearly identify the name of the Principal Investigator; and then, must clearly identify the name of the person to be contacted on matters related to the scientific content, staffing, and budget of the application.

The person identified may be the Supervising Faculty member, the Chairman of the Department or a contracts official serving the University and the Department.

c. Any questions regarding these documents should be directed to the Contracting Officer, Clementine Caudle-Wright at (703) 648-7483.

PART III. Evaluation Criteria

- A. Review Panel. Applications for funding in the EDMAP Component of the National Cooperative Geologic Mapping Program will be reviewed by a panel composed of 5 university geologists who represent the eastern (1), central (1), and western (1) regions of the country and 2 at-large representatives; two representatives of the Association of American State Geologists; and three representatives of the USGS. The chairperson of the committee will be the Associate Coordinator of NCGM Program. Each committee member will have a demonstrated strong career record in geologic mapping and continued activity in this area, concern about producing high quality geologic maps, and a thorough knowledge of regional geology. All will serve three-year staggered terms, with the possibility of reappointment for one additional term.
- B. Conflict of Interest. No panelist may review, or take part in any discussion with other panel members, prior to or during a panel meeting, on an application that originated with students with whom this member has been working, from the institution or agency where he or she is employed, or other conflicts.
- C. Evaluation Criteria. All applications for funding will be considered using criteria outlined below. Each reviewer will complete an evaluation form for each application reviewed, and these forms will become part of the official proceedings of the review panel meeting. A summary of the review panel comments will be provided to the principal investigators for all proposals reviewed. Evaluations will be based on:
 - 1. Coordination. Does the proposal show that the faculty advisor and student geologic mapper have planned their mapping project in consultation with the appropriate State Geologist or USGS Project Chief? What is the degree of this coordination?
 - 2. **Justification**. Will the proposed geologic mapping project answer any significant scientific questions, either pure or applied? Does the mapping project attack a problem that has any significant societal value?
 - 3. **Technical quality of the Application**. Is the proposed geologic mapping project well thought out? Does the proposal address how the student will obtain necessary support data, such as paleontologic or geochemical information, if

that data is critical to the success of the geologic mapping? Is the student capable of accomplishing the objectives stated, and in the time allowed?

- 4. Reasonableness of the Budget. Is the proposed budget commensurate with the level of effort required to accomplish the objectives? Is the cost reasonable relative to the anticipated results? Are non-Federal funds or in-kind services available to at least equally match the requested Federal funding amount. (For example, this could consist of documentation showing salary paid or intended to be paid to graduate student for any work relating to the field project. In addition, university stipends for RA (Research Assistant) work paid to the student for any work related to the research project during the year can be used as the university match. Alternatively, match can be shown as money paid to undergraduate field assistants during work on the research project.) Is the budget designed primarily to get the student into the field to conduct the geologic mapping? Is the amount of money budgeted to support the faculty advisor modest and reasonable?
- 5. **Mentorship.** Does the proposal show that the faculty advisor will be spending adequate time advising the student on geologic mapping techniques?

PART IV. GENERAL PROVISIONS

A. General Provisions of the National Geologic Mapping Program

By accepting Federal assistance, your institution agrees to abide by the provisions of the National Cooperative Geologic Mapping Program.

- O The National Geologic Mapping Act of 1997, Public Law 105-36.
- O OMB Circular A-16 Coordination of Surveying and Mapping Activities
- B. Office of Management and Budget (OMB) Circulars

By accepting Federal assistance, your organization agrees to abide by the applicable OMB Circulars in the expenditure of Federal funds and performance under this program. A university can, however, propose other circulars in their application if these circulars are not applicable.

- OMB Circular A-21, "Cost Principles for Educational Institutions"
- OMB Circular A -110, "Uniform Administrative Requirements for Grants and Other Agreements with Institutions of Higher Education, Hospitals, and Other Nonprofit Organizations"

- O OMB Circular A-122, "Cost Principles for Nonprofit Organizations"
- OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

C. Rights in technical data.

The U.S. Government may publish, reproduce, and use all technical data developed as a result of this assistance award in any manner and for any purpose, without limitation, and may authorize others to do the same. The Program Coordinator agrees to contact the authors of any EDMAP product for review and coordination in the release of technical data. Full credit for authorship will be given. Every effort to protect the scientific integrity of newly gathered data will be made by the EDMAP Program Coordinator.

D. Publication.

1. Publication of any map produced under EDMAP is contingent upon final acceptance by the State Geologist and USGS and is not based on having received an award. Publication may be in conventional format in paper copy, reproducible mylar or similar material, and electronic format as digital files on computer readable disk or CD-ROM. Maps with explanatory information submitted to journals, professional organizations, or commercial firms for publication shall be accompanied by the following notation:

"This map and explanatory information is submitted for publication with the understanding that the United States Government is authorized to reproduce and distribute reprints for governmental use."

- 2. A copy of each map with all accompanying explanatory information shall be submitted to the Project Officer simultaneously with its submission for publication. If a map has been prepared as an electronic digital data file (or files), the cover letter accompanying the maps should state how a copy of these files could be obtained if needed by either the USGS or state geological survey. One reprint of each map shall be submitted to the Project Officer immediately following publication. One reprint should also be sent to the appropriate state geological survey.
- 3. <u>Program credit</u>. All geologic maps resulting from any project carried out under this assistance award resulting wholly or in part from the cooperative agreement will bear the following credit statement in the map header, on the title page of an accompanying explanatory text, and in the acknowledgments that accompany the map or any resulting report: Support (or partial support) provided by the U.S. Geological Survey, National Cooperative Geologic Mapping Program.

4. <u>Disclaimer</u>. All maps and explanatory text submitted for publication by professional societies or commercial firms shall carry the following notation:

"The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the U.S. Government."

E. Buy American Act Requirements

Pursuant to Section 307 of the Department of the Interior and Related Agencies Appropriation Act of 1999, Public Law 105-85, 111 Stat. 1590, please be advised on the following:

In the case of any equipment or product that may be authorized to be purchased with financial assistance provided using funds made available in this Act, it is the sense of the Congress that entities receiving the assistance should, in expending the assistance, purchase only American-made equipment and products.

F. Anti-Lobbying

Recipient shall not use any part of the appropriated funds from the Interior and Related Agencies Appropriations Act, FY 1999, for any activity or the publication or distribution of literature that in any way tends to promote public support or opposition to any legislative proposal on which Congressional action is not complete.

G. <u>Metric Conversion Requirements</u>

All progress and final reports, other reports, or publications produced under this award shall employ the metric system of measurements to the maximum extent practicable. Both metric and inch-pound units (dual units) may be used if necessary during any transition period(s). However, the recipient may use non-metric measurements to the extent the recipient has supporting documentation that the use of metric measurements is impracticable or is likely to cause significant inefficiencies or loss of markets to the recipient, such as when foreign competitors are producing competing products in non-metric units.

PART V. EDMAP - Program Specifications

A. Funding

1. The EDMAP program is designed to be carried out on a 1:1 match. Recipients shall match each Federal dollar with a non-Federal dollar. The non-Federal share may be contribution of funds or services. Such services can include those related to the student research project or cash provided to contractors (see part III,

C,4, for other matching possibilities). The source(s) of the university contribution must be listed in the proposal. The matching requirement must be met annually.

- 2. Use of USGS funds for the purchase of equipment is discouraged.
- 3. Funds for the 2000 National Cooperative Geologic Mapping Program and in turn, EDMAP funds, will not be available until enactment of USGS appropriations.

Student awards will be made in the form of cooperative agreements to the supervising faculty member and the institution. Within the total award, a maximum of 15 percent of total direct costs may be included for support of the supervising faculty member. The EDMAP Review Panel encourages the use of a low overhead rate. A detailed budget will be submitted with the proposal showing each line item.

Only one-year (12 month) awards will be issued under this program. We anticipate issuing awards in the Spring of 2000. Proposals may be submitted which request performance periods of either one or two years. However, if approved the proposal will be funded for the first year only. Funding for year two will be determined through the annual competitive announcement. Your advantages to a two-year proposal are that if funded for the second year, the same award number and same financial account will be used for both years.

SPECIAL NOTE: A cooperative agreement issued by the USGS Office of Acquisition and Federal Assistance, signed by the USGS Contracting Officer, obligates USGS funds. Notification of a successful application does not constitute authority to incur costs. Costs incurred prior to receipt of a signed cooperative agreement will be at the risk of the university. Once the cooperative agreement for a successful proposal has been signed by both agencies, the university may incur costs.

4. Performance of projects funded by this program will conform to OMB Circular A-16 - "Coordination of Surveying and Mapping Activities".

B. Principal Investigator(s)

The principal investigator(s) will be responsible for activities including:

- 1. Geologic mapping activities at the appropriate scale(s), using standard geologic mapping techniques to ensure accurate presentation of geologic data.
- 2. Preparation of geologic maps at the appropriate scale to depict the geologic characteristics of the area and all necessary explanatory information.

3. The student shall not be proposed as the Principal Investigator.

C. Project Deliverables

Applications shall clearly state what the deliverable geologic map products under the projects will be and the date of delivery of draft geologic maps with explanations. Maps are submitted to Peter Lyttle, Associate Program Coordinator, National Geologic Mapping Program, USGS, MS-908, Reston Virginia 20192. Deliverables will consist of one copy of at least item (1), and either item (2) or (3), or both, as indicated below. Final products are due on or before the last day of the performance period.

1. Geologic map(s) from new mapping and appropriate derivative maps, with all necessary explanatory information (explanation of map units and symbols, correlation of map units, stratigraphic column, and geologic sections) of the project area. Please indicate by quadrangle name(s) and latitude and longitude the map(s) to be delivered. NOTE: First year or interim map products can be of "in progress" or "field sheet" quality, but field data and other map information should be included so an evaluation of the progress of the project can be made.

Maps and explanatory information submitted at the end of the performance period must be legible copies (1), made from scale-stable reproducible topographic base maps and explanatory information by ozalid or large- format xerographic techniques or their equivalents. The maps can be hand lettered if fully legible, or preferably, should be machine or electronically drafted. The explanatory text should be prepared by word processing and submitted in printed text format; correlation of map units, stratigraphic columns and geologic sections can be reproduced from scale-stable base material; hand drafted and lettered copy, if fully legible, is acceptable.

At the time the map and accompanying explanatory information are submitted to the Program Officer, they should be made available to the public through the State or USGS Open-File series.

- 2. Where appropriate, supplementary technical report(s) summarizing the geology and geologic history of the project area represented on the geologic map(s) and the overall results of the project. The geologic map and explanatory information (Item C.1., above) have highest priority for completion.
- 3. Other project data/information in media forms other than those listed above as agreed to by both parties.

D. Involvement Statement

All products resulting wholly or in part from the EDMAP program will bear a statement identifying that the product has been produced in cooperation with the U.S. Geological Survey, National Cooperative Geologic Mapping Program on the heading (geologic maps) or on the title page and in the acknowledgments of explanatory information and reports.

E. <u>Method of Payment/Financial</u>

- The recipient will use Standard Form (SF) 270, Request for Advance or Reimbursement, to request payment under all resulting assistance awards. The SF-270 will be submitted to the Administrative Contracting Officer (ACO) whose address will be identified in the cooperative agreement document and shall not be submitted no often than quarterly. Request for the full award amount prior to the completion of the project will not be honored.
- 2. The recipient will submit a completed SF-269A, Financial Status Report, to the ACO within ninety (90) days of the end of the period of performance.
- 3. The recipient shall submit a completed SF3881, Payment Information Form for the ACH Vendor Payment System and forward to the address preprinted thereon.

-- END OF PROGRAM ANNOUNCEMENT --